LAND APPLICATION SITE THOMAS R. IRBY LUTRI 1 LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

DART DAW	LAND APPLICATION AG	DEEMENT - BIOSOLIDS	AND INDUSTRIAL	RESIDUALS
DART D-VIII	TAND APPLICATION AG	おととかにい 1 - むしつひにしつつ	WIND HADDS FIVIUR	レビジュレクンドゥ

• • • • •	·	- BIOSOLIDS AND INDOS	A CONTRACTOR OF THE CONTRACTOR
here as "Landowner", and remains in effect until it is to the Landowner in the event individual parcels identified	Recyc Systems, Inc, reminated in writing by either to far a sale of one or more part in this agreement changes, the same of	5-13 between Thomas eferred to here as the "Permit party or, with respect to those cels, until ownership of all parchose parcels for which owners iduals under this agreement.	parcels that are retained by cels changes If ownership of ship has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real proper or reclamation sites identifie	ty located in <u>ເມລອດພະ</u> d below in Table 1 and identiffi	a, Virginia, which includes ed on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids, v	water treatment residuals or of	her industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	<u>Tax Parcel ID</u>
37-A-81	1.10元 1900 电多数数数 电平分离 15	· 电影响 "阿尔克斯斯斯"	
37-A-54	<u> </u>		. altigra
	्रिके स्थापनामान्य मान्यस्ट्रिके अस्य क्रास्त्री । (द्वारी	· 中国的一个历史,中国的金属的。	- アイスデオー (表現) d - はないない 1 (多な) (84) (1) - 1
- 14	The state of the s	19 19 19 19 19 19 19 19	An Marketina (Control of Control
Additional parcels containing I an	d Application Sites are identified on	Supplement A (check if applicable)	
-	the state of the s	er of the properties identified h	erein
Check one.	e Landowner is one of multip	e owners of the properties ide	ntified herein.
within 38 months of the late 1. Notify the purchase later than the date of the later than	est date of biosolids application of transferee of the application of the property transfer; and se of the sale within two weeks	ble public access and crop ma s following property transfer.	nagement restrictions no
notify the Remittee immedi for application or any part o	ately if conditions change suc	ation on the fields identified he that the fields are no longer valid or the information herein	available to the Permittee
agricultural sites identified a inspections on the land ider	above and in Exhibit A. The L ntified above, before, during o	ee to land apply residuals as a andowner also grants permiss or after land application of permise rements applicable to such ap	nitted residuals for the
	r treatment residuals Fo	od processing waste Yes □ No ☑ Y	er industrial sludges
Thomas R. IR	by Thomas K	Ille 63600	GRICKChApel PL
Landowner - Printed Name, Title	Signature	Mailing	Address & Phone Number 4
manner authorized by the VPA	Permit Regulation and in amou	lids and/or industrial residuals on nts not to exceed the rates identified in accordance with §10.1-104.	the Landowner's land in the led in the nutrient management
The Permittee agrees to notify specifically prior to any particular	the Landowner or the Landowner application to the Landowner	er's designee of the proposed sch 's land. Notice shall include the sc	edule for land application and ource of residuals to be applied.
☐ I reviewed the document(s) document(s) available to DEQ	assigning signatory authority to for review upon request. (Do not	the person signing for landowner a check this box if the landowner signs	above. I will make a copy of this this agreement)
			ngton, Virginia 22734

Mailing Address

101111111111111111111111111111111111111	County or City: Lunenburg
Landowner: Thomas R. Irby Jr.	
A STATE OF THE STA	
Landowner Site Management Requirements:	
application of biosolids, the components of biosolids and prop	
I have also been expressly advised by the Permittee that the sidentified below must be complied with after blosolids have be that I am responsible for the implementation of these practices	eu abbiled ou my broberty in order to brotect brotic liester, end
	at each site under my ownership following the land application of
biosolids at the site:	
 Notification Signs: I will not remove any signs posted be biosolids land application site, unless requested by the completed. 	by the Permittee for the purpose of identifying my field as a Permittee, until at least 30 days after land application at that site is
O Dublic Access	garante de la companya
Public Access a. Public access to land with a high potential for	public exposure shall be restricted for at least one year following
application of biosolids. No biosolids amende same period of time unless adequate provisio	public exposure shall be restricted for at least 30 days following any disoil shall be excavated or removed from the site during this are made to prevent public exposure to soil, dusts or aerosols; dishall not be harvested for one year after application of biosolids and with a high potential for public exposure or a lawn, unless
otherwise specified by DEQ.	Discribed a la company de la completa del completa de la completa de la completa del completa de la completa del la completa del la completa de la completa del la completa del la completa de la completa del la c
not be harvested for 14 months after the appli b. Food crops with harvested parts below the su application of biosolids when the biosolids ren	e biosolids/soll mixture and are totally above the land surface shall cation of biosolids. Iface of the land shall not be harvested for 20 months after the nain on the land surface for a time period of four (4) or more
biosolids remain on the land surface for a time	rface of the land shall not be harvested for 38 months when the period of less than four (4) months prior to incorporation. narvested for 30 days after the application of biosolids; after the application of biosolids (60 days if fed to lactating dairy
4. Livestock Access Restrictions: Following biosolids application to pasture or hayla a. Meat producing livestock shall not be grazed to b. Lactating dairy animals shall not be grazed for. Other animals shall be restricted from grazing	nd sites: for 30 days, r a minimum of 60 days.
5 Supplemental commercial fertilizer or manure applicati	ons will be coordinated with the biosolids and industrial residuals are not exceeded as identified in the nutrient management plan
 Tobacco, because it has been shown to accumulate cayears following the application of biosolids or industrial pounds/acre (0.5 kilograms/hectare). 	admium, should not be grown on the Landowner's land for three residuals which bear cadmium equal to or exceeding 0.45
Thomas Richy	11-15-13
Landowner's Signature	Date
Reverly of oul	1457 Varick Chape 1 Rd. Kenbridge IVA 23944 434-676-1880
Farm Operato Signature	Mailing Address & Phone Number

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

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\mathbf{r}	F F F 1	11.0	_

Recyc Systems Inc.

Site Name:

Thomas R. Irby

County or City:

Lunenburg

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
37-A-81	Thomas R. Irby Jr.
37-A-54	Thomas R. Irby Jr.

FARM DATA SHEET

SIITE NAME:	Thomas R. Irby	COWNITY:	Lwnenburg
OWNER:	Thomas R. Irby Jr.	OPERATION:	Beverly Fowlkes
OWNERS	636 Varick Chapel Road	OPERATION'S	1457 Varick Chapel Road
ADDRESSS	Kembridge, VA 23944	ADDRESSS	Kembridge, VA 23944
OWNER'S TELEPHOONE	434-292-309 9	OPERATION'S TELEPHONIE	434-676-1880
GENERAA FARM Type:	Hay	CIEIL PHONE:	<u>-</u>
# CANTITUEE	None	EMAIL:	-
LAGOON or SLURRY	None	LATITUDE	36°59′04″
TOPO QUAD:	Kembridge East	LONGITUDE	78°03′27″
COMMENTS			
		<u> </u>	
			вв

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Env	/ironmentally	Sensitive Se	oils		Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	Map#	Tract #
LUTRI 1	17.2	_	_	_	<u>.</u>	CU 07	TM 37-54 TM 37-81	T 172 F 1, 4
						000		
		· =			·			
		<u> </u>						
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		· · · · · · · · · · · · · · · · · · ·			·- · · · · · · · · · · · · · · · ·			
								
·	 -	<u>, ,</u>						
TOTAL ACRES IN SITE	17.2				·			

Page 1 of 2

Sample ID

Field ID

Report Number: 14-008-0510 Account Number: 70594 PALL WWW.aleastern.com

Mehlich 3

ppm

21

A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC

Lab

Number

15715

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower:

Submitted By: BB

THOMAS IRBY/LUTRI

LUNENBURG

Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 01/08/2014

Date Of Analysis: 01/09/2014

ENR

lbs/A

81

Organic Matter

Rate

1.7

Date Of Report: 01/09/2014

U 14	D0	ite Oi n	epoit. o	1/09/201	4										
Phos	phorus		Potas	slum	Magn	esium	Calc	ium	Sod	lium	þ	Н	AcidIty	C.E.C	ĺ
ch 3 Rate	Pese ppm		ppm F	Rate	ppm M	g Rate	ppm C	a Rate	ppm N	la Rate	Soil pH	Buffer Index	H meq/100g	meq/100g	
L			42	L	36	M	243	М							ı

		Perce	nt Base	Saturati	on	Nitra	ate	Sı	ulfur	Zlı	nc	Mang	anese	Ire	on	Cop	per	Во	ron	Soluble	Salts	Chlo	ride	Aluminum
Sample ID Field ID	K	Mg	Ca	Na	Н	NO,	Ņ		S	Z	n	M	n	F	e	C	u		В	SS	.	C	1	Al
	%	%	%	%	%	ppm '	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ms/cm	Rate	ppm	Rate	ppm
1	4.5	12.5	50.6		30.4																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) lested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pourie Mc George

Pauric McGroary

Page 2 of 2

Report Number: 14-008-0510 Account Number: 70594

A&L Eastern Laboratories 7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

THOMAS IRBY/LUTRI

LUNENBURG

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD **CULPEPER VA 22701**

Grower:

Submitted By: BB

Farm ID:

Date Received: 01/08/2014

Date Of Report: 01/09/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magneslum Mg Ib/A	Súlfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1	Adjust pH to 6.8	0	1.8				44						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Spring, 2014-Summer, 2016) Thomas R. Irby Planner: Recyc Systems, Inc

Tract: 172 Location: Lunenburg
(N = N based, 1P = P based, 1:5P = P based at 1.5 removal, 0P = No P allowed)

IN - N Daseu, IF -	P based,	1:5P =	P based at 1.5 remov	<u>rai, up = No P ai</u>	lowed)								
Field	Size	Yr.	Crop	Needs	Leg	Manure/Biosid	1T	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No.	(ac)			N-P-K	/Man	Rate & Type	(d).	N-P-K	appld N-P-K	P	N-P-K		
/Name	Total/			(lbs/ac)	Resid	(season)		(lbs/ac)	(lbs/ac)	rem	(lbs/ac)		
<u> </u>	Used		<u> </u>	ŀ`	,		ľ			cred		· .	
1, 4/LUTRI 1(N)	17/17	2014	Fescue grass hay	70-50-95	0/0				70-50-95	N/A			
	_i		mt.										

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
172	LUTRI 1	17	2014-Wi	M- (21 P ppm)	L+ (42 K ppm)	A&L MIII	5.3		,

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
172	172/1, 4	LUTRI 1	17	Appling	IVb	IV	111	IV	,

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/lintensive Wheat Bul/Acre	Std. Wheat Bu/Acre	Alfalifa Tons//Acre	Grass/Hay Tons//Acre	
h	≽170	>80	≽6 4	<u>></u> 6	>4.0 3.5-4.0	
11	150-170	70-8 0	56-64	4-6		
111	130-150	60-70	48-56	≼ 4	3.0-3.5	
IV .	100-130	50-60	40-48	NA	<3 .0	
V	€100	≤ 50	≪40	NA	NA	

Farm Summary Report

Plan:

New Plan

Spring, 2014 - Summer, 2016

Farm Name:

Thomas R. Irby

Location:

Lunenburg

Specialist:

Recyc Systems, Inc.

N-based Acres: 17.2 P-based Acres: 0.0

Tract Name:

172

FSA Number: 172

Location:

Lunenburg

Field Name:

LUTRI 1

Total Acres:

17.20 Usable Acres: 17.20

FSA Number: 1, 4

Tract:

172

В

Location:

Lunenburg.

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH I

K

Lab

Wi-2014

5.3

M-(21 P ppm)

L+(42 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

73 27 1B2 1C2 Appling Appling

Field Warnings:

Crop Rotation: PLANTED 2014-Sp YIELD 1.9 * tons

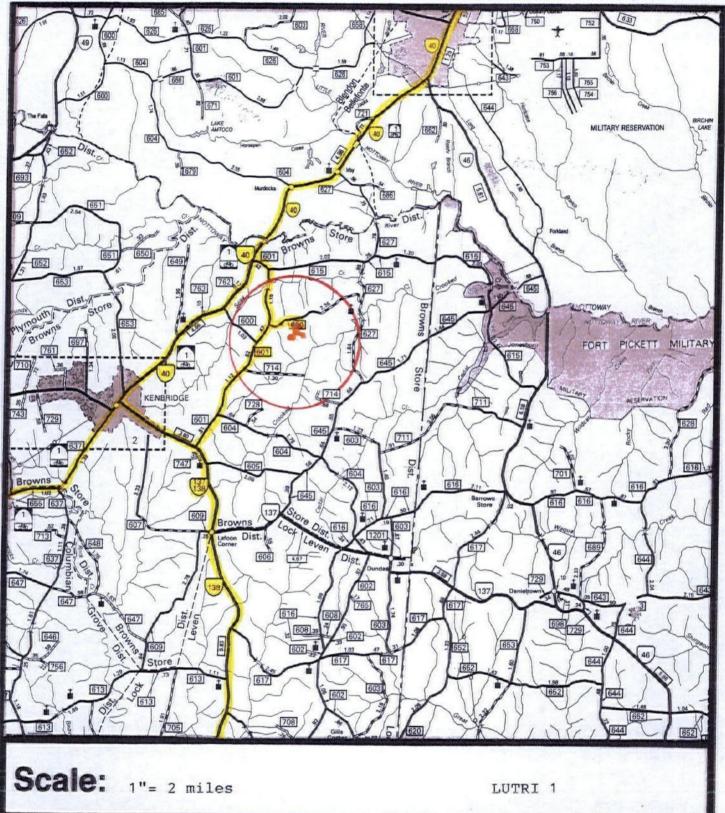
CROP NAME

Fescue grass (hay), maint. - No Till

MAPS

(Biosolids Land Application)



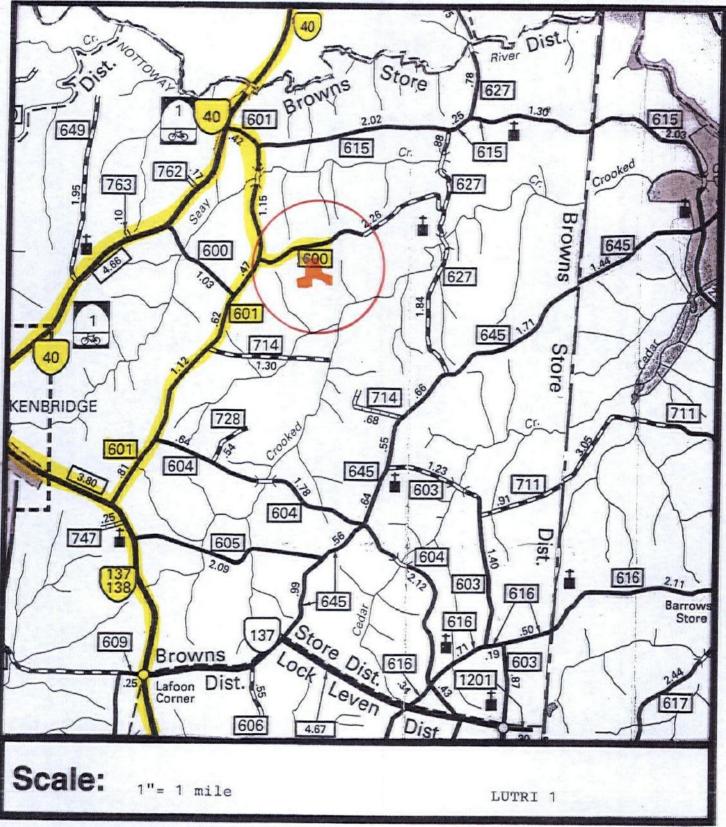


VICINITY MAP

M

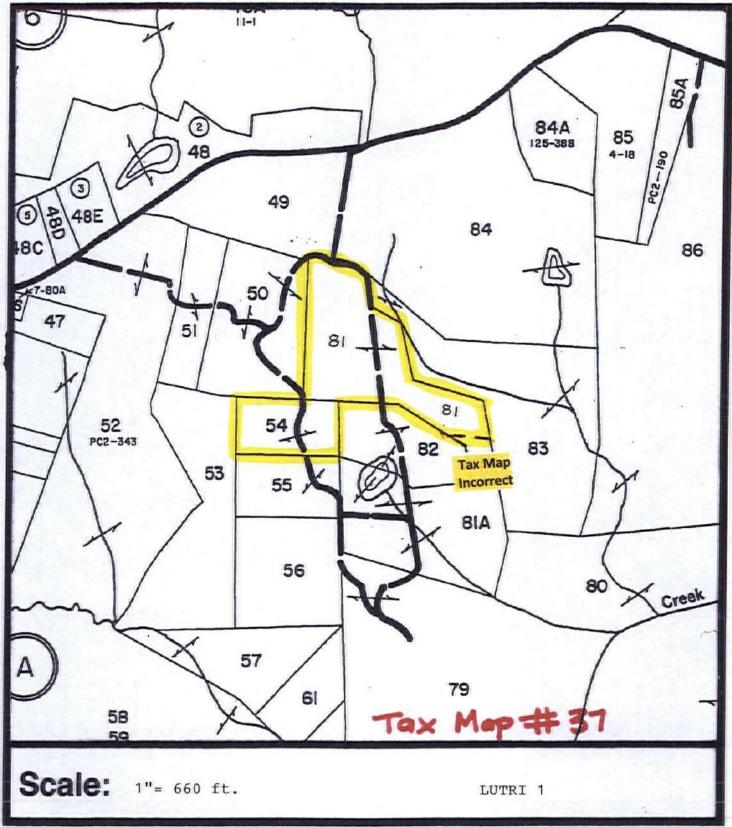
(Biosolids Land Application)





(Biosolids Land Application)





TAX MAP

N

ADJOINING LANDOWNERS

Thomas R. Irby

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)						
37	49	Llaweller D. Dames						
37	49 50	Llewellyn B. Barnes						
		Koretha Cumberbatch and Thomas Irby Jr.						
	53 55	Richard T. Hite						
	55	Richard T. Hite						
. 1	56	Richard T. Hite Richard T. or Carolyn H. Hite Richard T. Hite						
	79							
1	80							
	81A	Richard T. Hite						
1	83	Richard T. or Carolyn H. Hite						
]	84	Richard T. or Carolyn H. Hite						
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Recyc Systems. (Biosolids Land Application)



Soil Map-Lunenburg County, Virginia



Scale:

1"= 660 ft.

LUTRI 1

(Biosolids Land Application)

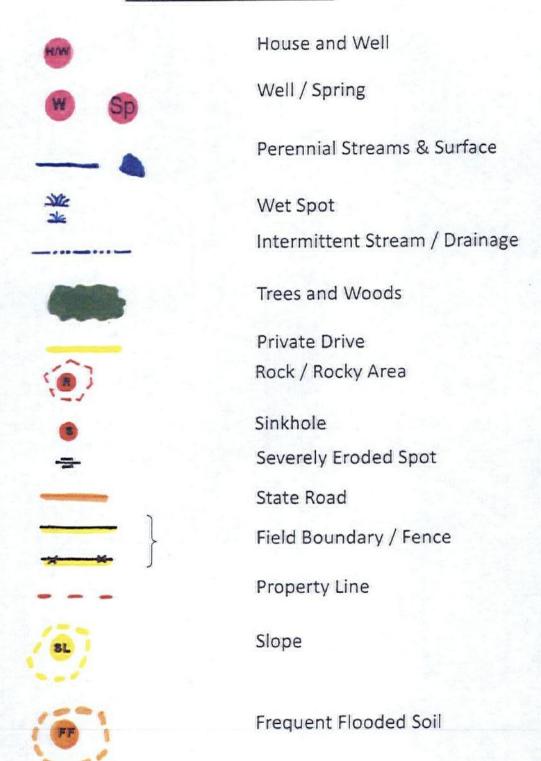




Scale: 1"= 660 ft.

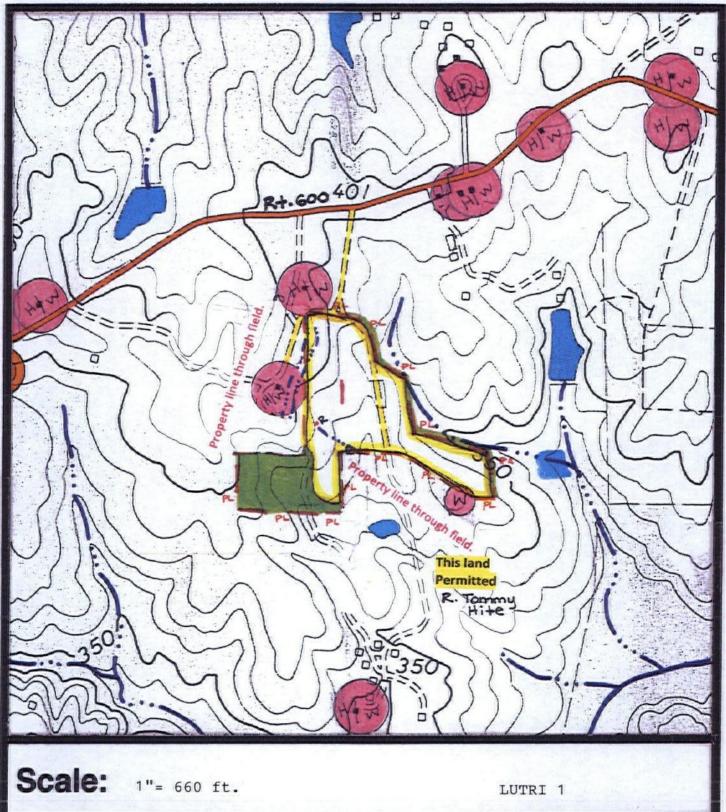
LUTRI 1

Legend for Site Plan



(Biosolids Land Application)



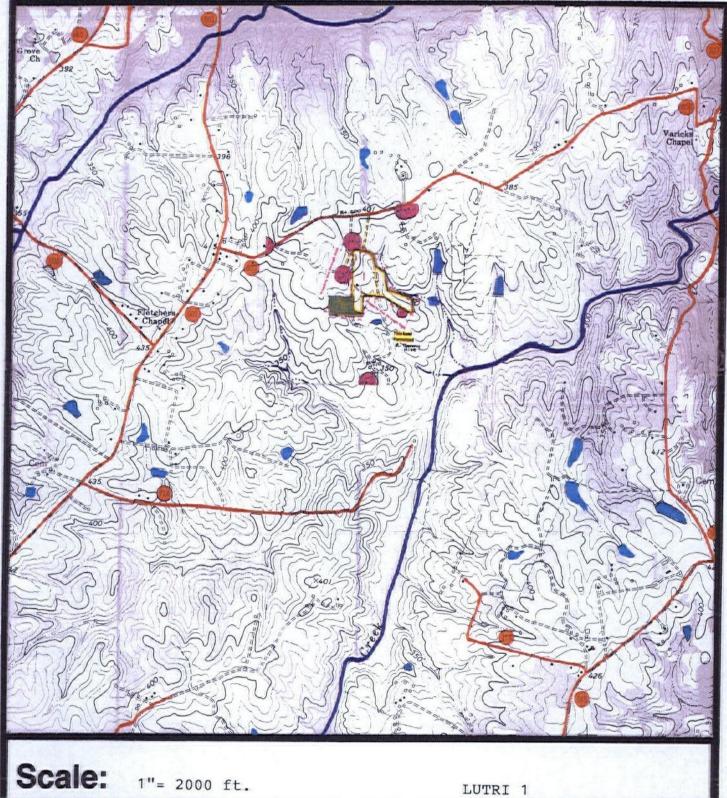


SITE PLAN

MA

(Biosolids Land Application)





TOPOGRAPHIC MAP

N A